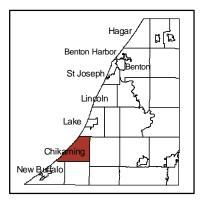


CHIKAMING TOWNSHIP T07S, R20W T07S, R21W

#### HIGH RISK EROSION AREAS & CRITICAL DUNE AREAS

#### BERRIEN COUNTY



#### Legend



#### CRITICAL DUNE AREAS

THESE AREAS ARE DESIGNATED AS CRITCAL DUNE AREAS PURSUANT TO PART 353, SAND DUNE PROTECTION AND MANAGEMENT OF THE NATURAL RESOURCE AND ENVIRONMENTAL PROTECTION ACT, 1994 PA 451, AS AMENDED.



#### HIGH RISK EROSION AREAS (SHADED ALONGSHORE)

THESE AREAS ARE LEGALLY DEFINED BY PART 323, SHORELANDS PROTECTION AND MANAGEMENT, OF THE NATURAL RESOURCE AND ENVIRONMENTAL PROTECTION ACT, 1994 PA 451, AS AMENDED, BEING GREAT LAKES SHORELAND AREAS DOCUMENTED TO RECEDE AN AVERAGE OF ONE FOOT OR MORE PER YEAR.



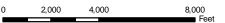
- THE AREA ID PROVIDES A SPATIAL
  REFERENCE FOR EACH SPECIFIC HREA
  WITHIN A TOWNSHIP.
- THE NUMBERS BELOW REPRESENT, IN FEET, THE 30-YEAR AND 60-YEAR PROJECTED RECESSION DISTANCES, RESPECTIVELY FOR THAT SPECIFIC HREA.

#### FOR FURTHER INFORMATION:

GREAT LAKES SHORELANDS UNIT LAND AND WATER MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PO BOX 30458 LANSING, MI 48909-7958 517-373-1170

MAP DATE: 10/3/2007

HREA SETBACK UPDATES IMPLEMENTED: 10/12/2007



HREAs identified South to North Date of Designation: October 12, 2007

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A1	1	11-07-0840-0158-01-9 northern 775 feet	1.0	45	75
A1	1.2	11-07-0840-0134-02-0	1.0	45	75
A1	1.21	11-07-0840-0134-03-0	1.0	45	75
A1	1.22	11-07-0840-0131-01-3	1.0	45	75
A1	1.24	11-07-0840-0129-01-9	1.0	45	75
A1	1.25	11-07-0840-0128-00-4	1.0	45	75
A1	1.26	11-07-0840-0127-00-8	1.0	45	75
A1	1.27	11-07-0840-0126-00-1	1.0	45	75
A1	1.28	11-07-0840-0125-00-5	1.0	45	75
A1	1.29	11-07-0840-0124-00-9	1.0	45	75
A2	2.2	11-07-0840-0122-00-6	2.1	80	145
A2	2.21	11-07-0840-0121-00-0	2.1	80	145
A2	2.22	11-07-0840-0120-00-3	2.1	80	145
A2	2.23	11-07-0840-0119-00-5	2.1	80	145
A2	2.24	11-07-0840-0118-00-9	2.1	80	145
B1	3	11-07-8700-0037-00-7 northern 300 feet of shore, see map	1.2	50	85
B1	3.2	11-07-0003-0017-05-3	1.2	50	85

HREA\* - Some parcels may be in multiple HREAs due to their large size.

30 yr PRD\* is the Projected Recession Distance (feet) landward from the Erosion Hazard Line for readily moveable structures including those structures 3,500 square feet or less and built on a basement, crawlspace or pilings. Additional restrictions may apply per Administrative Rules 281.21-22.

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Designation runs with the land including subsequent splits. Absence of a property number does not guarantee the property is located outside of an HREA. Contact the Great Lakes Shorelands Unit, Water Resources Division, DEQ in Lansing or the local DEQ field office for assistance.

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HREAs identified South to North Date of Designation: October 12, 2007

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
B1	3.21	11-07-8700-0011-00-8	1.2	50	85
B1	3.22	11-07-8700-0010-00-1	1.2	50	85
B1	3.3	11-07-8700-0021-00-3	1.2	50	85
B2	4	11-07-8700-0037-00-7 southern 525 feet of shore, see map	2.4	85	160
B2	4.2	11-07-8700-0009-00-3	2.4	85	160
B2	4.21	11-07-0003-0017-01-1	2.4	85	160
B2	4.22	11-07-0003-0017-02-9	2.4	85	160
B2	4.23	11-07-0003-0017-03-7	2.4	85	160
B2	4.3	11-07-8700-0022-00-0	2.4	85	160
B2	4.31	11-07-8700-0023-00-6	2.4	85	160
B2	5	11-07-0003-0008-01-1	2.4	85	160
B2	6	11-07-0003-0008-03-8	2.4	85	160
B2	7	11-07-0003-0008-02-0	2.4	85	160
B2	8	11-07-0003-0009-02-6	2.4	85	160
B2	8.2	11-07-0003-0009-01-8	2.4	85	160
B2	9	11-07-0003-0010-02-4	2.4	85	160
B2	10	11-07-3176 northern 450 feet	2.4	85	160
B2	10.1	11-07-3176-0002-00-3	2.4	85	160

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HREAs identified South to North Date of Designation: October 12, 2007

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
B2	10.11	11-07-3176-0003-00-0	2.4	85	160
B2	10.12	11-07-3176-0004-00-6	2.4	85	160
В3	11	11-07-3176 southern 300 feet	1.4	55	100
В3	11.1	11-07-3176-0005-00-2	1.4	55	100
В3	11.11	11-07-3176-0006-00-9	1.4	55	100
В3	11.12	11-07-3176-0007-00-5	1.4	55	100
В3	12	11-07-0003-0020-25-9	1.4	55	100
В3	12.2	11-07-0003-0013-00-7	1.4	55	100
В3	13	11-07-0003-0020-24-1	1.4	55	100
В3	14	11-07-0003-0020-23-2	1.4	55	100
В3	15	11-07-0003-0020-22-4	1.4	55	100
В3	16	11-07-0003-0014-04-6	1.4	55	100
В3	17	11-07-0003-0014-03-8	1.4	55	100
В3	18	11-07-0003-0015-00-0	1.4	55	100
В3	19	11-07-0003-0020-19-4	1.4	55	100
В3	20	11-07-0003-0020-01-1	1.4	55	100
В3	20.2	11-07-0010-0010-06-0	1.4	55	100
B4	21	11-07-0010-0010-17-5	3.1	110	200
B4	21.21	11-07-0003-0020-16-0	3.1	110	200

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HREAs identified South to North Date of Designation: October 12, 2007

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
B4	21.22	11-07-0003-0020-03-8	3.1	110	200
B4	21.23	11-07-0003-0020-26-7	3.1	110	200
B4	21.24	11-07-0003-0020-27-5	3.1	110	200
B4	21.25	11-07-0003-0020-15-1	3.1	110	200
B4	22	11-07-0010-0001-00-1	3.1	110	200
B5	23	11-07-0010-0002-00-8	1.4	55	100
B5	24	11-07-0010-0003-00-4	1.4	55	100
B5	25	11-07-1200-0001-01-1	1.4	55	100
B5	26	11-07-1200-0002-01-7	1.4	55	100
B5	27	11-07-1200-0003-04-8	1.4	55	100
B5	28	11-07-1200-0003-05-6	1.4	55	100
B5	29	11-07-0009-0060-00-4	1.4	55	100
B5	30	11-07-0009-0063-00-3	1.4	55	100
B5	31	11-07-0900-0052-00-5 northern 525 feet of shore, see map	1.4	55	100
B5	31.2	11-07-0009-0061-00-1	1.4	55	100
B5	31.21	11-07-0900-0010-00-1	1.4	55	100
B5	31.22	11-07-0900-0009-00-2	1.4	55	100
B5	31.23	11-07-0900-0008-01-4	1.4	55	100

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HREAs identified South to North Date of Designation: October 12, 2007

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
B5	31.24	11-07-0900-0006-01-1	1.4	55	100
В6	32	11-07-0900-0052-00-5 begins 525 feet south of property line, see map, shore	2.5	90	165
В6	32.2	11-07-0900-0005-01-5	2.5	90	165
В6	32.21	11-07-0900-0004-00-1	2.5	90	165
В6	32.22	11-07-0900-0003-00-4	2.5	90	165
В7	33	11-07-0900-0052-00-5 southern 600 feet of shore, see map	3.6	125	230
В7	33.2	11-07-0900-0002-00-8	3.6	125	230
В7	33.21	11-07-0900-0001-00-1 updated Sep 12, 2018	1.2	50	85
C1	34	11-07-0009-0008-01-1	2.3	85	155
C1	35	11-07-0009-0008-00-2	2.3	85	155
C2	36	11-07-0009-0007-00-6	2.7	95	175
C2	38	11-07-4670-0001-01-3	2.7	95	175
C2	39.2	11-07-4670-0002-01-0	2.7	95	175
C2	39.21	11-07-4670-0064-01-5	2.7	95	175
C3	39.215	11-07-0009-0064-00-0	4.2	140	265
C3	39.22	11-07-4670-0066-00-0	4.2	140	265

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HREAs identified South to North Date of Designation: October 12, 2007

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
C3	39.225	11-07-4670-0061-02-4	4.2	140	265
C3	39.23	11-07-4670-0169-01-1	4.2	140	265
C3	39.25	11-07-4670-0168-00-7	4.2	140	265
С3	39.255	11-07-4670-0117-00-3	4.2	140	265
C4	39.26	11-07-4670-0167-00-1	1.9	70	130
C4	39.27	11-07-4670-0165-00-8	1.9	70	130
C4	39.28	11-07-4670-0164-00-1	1.9	70	130
C4	39.29	11-07-4670-0163-00-5	1.9	70	130
C4	40	11-07-0009-0004-01-5	1.9	70	130
C4	40.2	11-07-4670-0162-00-9	1.9	70	130
C4	40.21	11-07-4670-0161-00-2	1.9	70	130
C4	40.22	11-07-0009-0004-18-0	1.9	70	130
C4	40.23	11-07-0009-0004-17-1	1.9	70	130
C4	41	11-07-0009-0004-16-3	1.9	70	130
C4	42	11-07-0009-0004-15-5	1.9	70	130
C4	43	11-07-0009-0004-14-7	1.9	70	130
C5	44	11-07-0009-0004-69-0	1.6	65	110
C5	45	11-07-0009-0004-34-1	1.6	65	110
C5	46	11-07-0009-0004-33-3	1.6	65	110

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HREAs identified South to North Date of Designation: October 12, 2007

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
C5	47	11-07-0009-0004-32-5	1.6	65	110
C5	48.2	11-07-0009-0040-00-3	1.6	65	110
C5	48.21	11-07-0009-0041-00-0	1.6	65	110
C5	48.23	11-07-0009-0056-00-7	1.6	65	110
C5	49.2	11-07-0009-0057-01-1	1.6	65	110
C5	49.21	11-07-0009-0059-01-4	1.6	65	110
C5	50	11-07-0009-0058-00-0	1.6	65	110
C5	51	11-07-0009-0004-61-9	1.6	65	110
C5	51.8	11-07-0009-0004-62-7	1.6	65	110
C5	51.9	11-07-0009-0004-63-5	1.6	65	110
C5	52	11-07-0009-0004-26-1	1.6	65	110
C5	53	11-07-0009-0004-12-1	1.6	65	110
C5	54	11-07-0009-0004-02-3	1.6	65	110
C5	55	11-07-0009-0002-00-4	1.6	65	110
C5	56	11-07-0009-0003-01-9	1.6	65	110
C5	57	11-07-0009-0003-03-5	1.6	65	110
C5	58	11-07-0009-0003-02-7	1.6	65	110
C5	59	11-07-0009-0001-00-8	1.6	65	110
C5	60	11-07-0009-0065-00-6	1.6	65	110

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HREAs identified South to North Date of Designation: October 12, 2007

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
C5	61	11-07-0016-0001-04-3	1.6	65	110
C5	62	11-07-0016-0001-03-5	1.6	65	110
C5	63	11-07-0016-0001-02-7	1.6	65	110
C5	64	11-07-0016-0001-01-9	1.6	65	110
C5	65	11-07-0700	1.6	65	110
C5	65.2	11-07-0700-0005-00-4	1.6	65	110
C5	65.21	11-07-0700-0004-00-8	1.6	65	110
D	66	11-07-0017-0004-10-0	1.9	70	130
D	66.5	11-07-0017-0004-09-0	1.9	70	130
D	67	11-07-0017-0005-04-7	1.9	70	130
D	68	11-07-0017-0005-05-5	1.9	70	130
D	69	11-07-0017-0006-01-9	1.9	70	130
D	70	11-07-0017-0007-01-5	1.9	70	130
D	71	11-07-7340-0005-03-1	1.9	70	130
D	72	11-07-4400	1.9	70	130
E	73	11-07-7340-0003-02-0	1.2	50	85
E	73.2	11-07-7330-0003-00-6	1.2	50	85
Е	74	11-07-7340-0002-00-7	1.2	50	85
Е	75	11-07-7340-0001-00-1	1.2	50	85

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HREAs identified South to North Date of Designation: October 12, 2007

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
E	76	11-07-0017-0009-09-3	1.2	50	85
Е	77	11-07-7660-0043-00-9	1.2	50	85
Е	77.2	11-07-7660-0042-01-1	1.2	50	85
E	77.21	11-07-7660-0042-00-2	1.2	50	85
Е	78	11-07-7660-0045-00-1	1.2	50	85
Е	78.2	11-07-7660-0046-00-8	1.2	50	85
Е	78.21	11-07-7660-0047-02-1	1.2	50	85
E	78.22	11-07-7660-0048-00-1	1.2	50	85
Е	79	11-07-7660-0044-00-5	1.2	50	85
E	80	11-07-7660-0044-01-3	1.2	50	85
Е	81	11-07-7660-0049-00-7	1.2	50	85
Е	81.2	11-07-7660-0050-01-3	1.2	50	85
E	81.21	11-07-7660-0051-02-8	1.2	50	85
E	81.22	11-07-7660-0051-00-1	1.2	50	85
E	81.23	11-07-7660-0052-00-8	1.2	50	85
Е	81.24	11-07-7660-0053-00-4	1.2	50	85
Е	81.25	11-07-7660-0054-00-1	1.2	50	85
Е	81.26	11-07-7660-0054-01-9	1.2	50	85
Е	82	11-07-0017-0011-00-4	1.2	50	85

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HREAs identified South to North Date of Designation: October 12, 2007

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
E	83	11-07-0017-0012-10-0	1.2	50	85
Е	84	11-07-0017-0012-12-0	1.2	50	85
Е	85	11-07-0017-0012-11-0	1.2	50	85
E	86	11-07-4500-0005-00-3	1.2	50	85
E	87	11-07-4500-0006-00-0	1.2	50	85
E	88	11-07-4500-0007-00-6	1.2	50	85
Е	89	11-07-4500-0008-00-2	1.2	50	85
E	90	11-07-4500-0009-00-9	1.2	50	85
E	91	11-07-0020-0086-00-4	1.2	50	85
E	92	11-07-0020-0085-02-4	1.2	50	85
E	93	11-07-0020-0083-01-3	1.2	50	85
E	94	11-07-0020-0084-00-1	1.2	50	85
E	95	11-07-0020-0088-00-7	1.2	50	85
F	96	11-07-0019-0008-07-7	1.2	50	85
F	97	11-07-0019-0008-00-0	1.2	50	85
G	98	11-07-0019-0011-03-5	1.4	55	100
G	99	11-07-0019-0011-11-0	1.4	55	100
G	100	11-07-0019-0011-10-8	1.4	55	100
G	101	11-07-0019-0012-01-5	1.4	55	100

HREA\* - Some parcels may be in multiple HREAs due to their large size.

30 yr PRD\* is the Projected Recession Distance (feet) landward from the Erosion Hazard Line for readily moveable structures including those structures 3,500 square feet or less and built on a basement, crawlspace or pilings. Additional restrictions may apply per Administrative Rules 281.21-22.

60 yr PRD\* is the Projected Recession Distance (feet) landward from the Erosion Hazard Line for non-readily moveable structures such as large structures and septic systems.

Designation runs with the land including subsequent splits. Absence of a property number does not guarantee the property is located outside of an HREA. Contact the Great Lakes Shorelands Unit, Water Resources Division, DEQ in Lansing or the local DEQ field office for assistance.

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HREAs identified South to North Date of Designation: October 12, 2007

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
G	102	11-07-0019-0012-02-3	1.4	55	100
H1	103	11-07-0125-0037-00-1	2.0	75	135
H1	104	11-07-0125-0038-00-7	2.0	75	135
H1	105	11-07-0125-0038-01-5	2.0	75	135
H1	106	11-07-0125-0039-00-3	2.0	75	135
H1	107	11-07-0125-0040-00-1	2.0	75	135
H1	107.5	11-07-0125-0040-02-0	2.0	75	135
H1	108	11-07-0125-0041-03-2	2.0	75	135
H1	109	11-07-0125-0041-04-1	2.0	75	135
H1	110	11-07-0125-0041-05-9	2.0	75	135
H1	111	11-07-0125-0041-06-7	2.0	75	135
H1	112	11-07-2500-0001-00-7	2.0	75	135
H1	113	11-07-2500-0002-00-3	2.0	75	135
H2	114	11-07-0125-0042-03-9	1.0	45	75
H2	115	11-07-0125-0043-00-1	1.0	45	75
H2	116	11-07-0125-0033-00-5	1.0	45	75
H2	117	11-07-0125-0034-01-0	1.0	45	75
H2	118	11-07-0125-0002-02-9	1.0	45	75

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